SAMSUNG

E-MANUAL

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/register

Model _____Serial No. _____

Contents

Channel Menu

- Using the **INFO** button (Now & Next guide) 3
- Using Channel menu (Watch TV) 4
- Retuning Channels 18

Basic Features Menu

- Picture Menu 25
- Sound Menu 42

Preference Menu

- System Menu 52
- Support Menu 71

Advanced Features Menu

- How to enter USB for watching 77
- Anynet+ 102

Other Information Menu

- Anti-theft Kensington Lock 118
- Troubleshooting 120
- License 136

❑ Using the INFO button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV programme information for each channel according to the broadcasting time.

- Scroll ◄, ► to view information for a desired programme while watching the current channel.
- Scroll ▲, ▼ to view information for other channels. If you want to move to the currently selected channel, press the **ENTER** ↵ button.

* It may differ depending on the model.

❑ Using Channel menu (Watch TV)

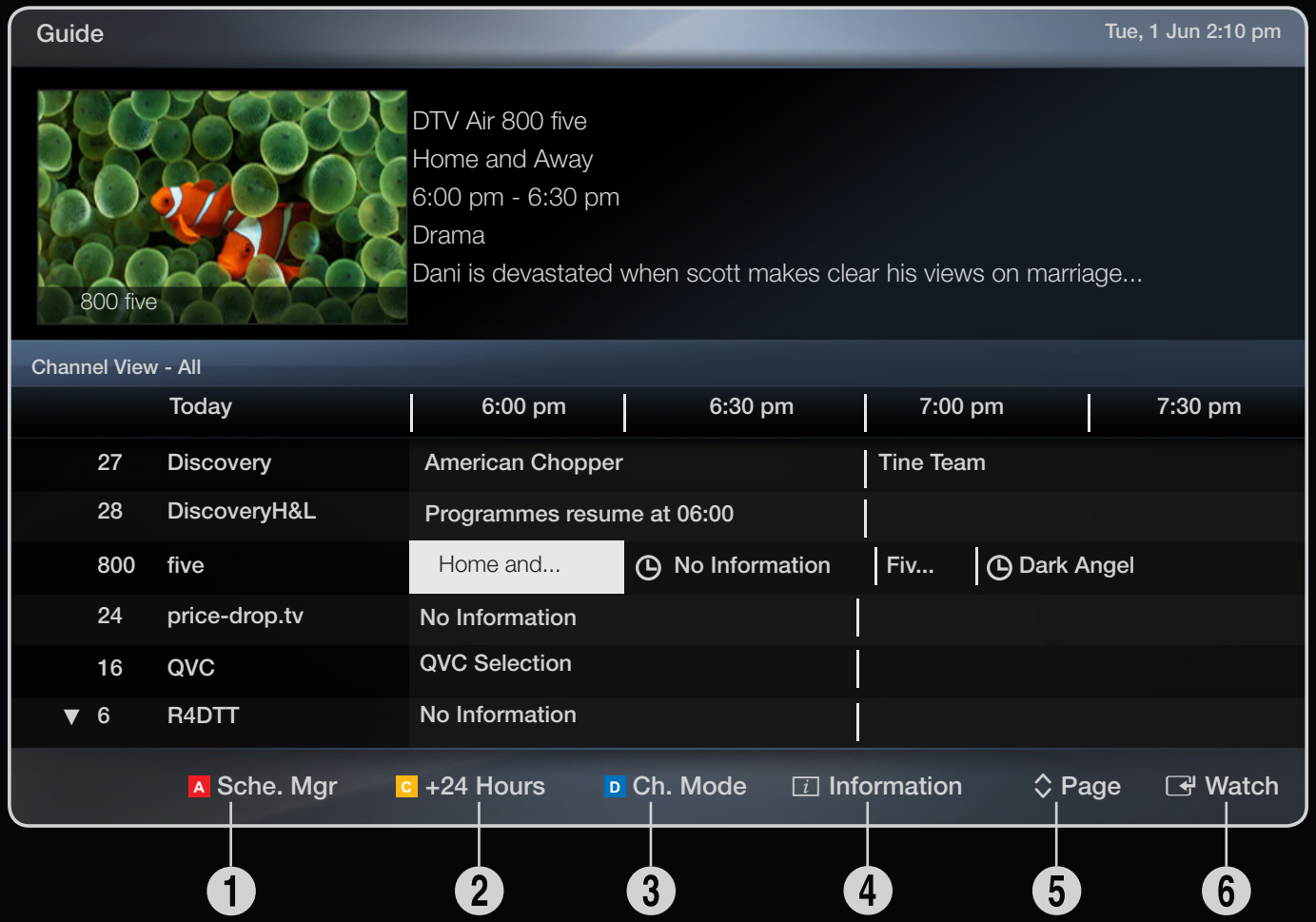
Press the **CONTENT** button to select **Watch TV**, then select the desired menu. Each screen will be displayed.

■ Guide

The EPG (Electronic Programme Guide) information is provided by broadcasters. Using programme schedules provided by broadcasters, you can specify programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.

* It may differ depending on the model.

Using Channel View



* It may differ depending on the model.

1. A Red (**Schedule Manager**): Moves to the Reserved programmes in **Schedule Manager**.
2. C Yellow (**+24 Hours**): Viewing the list of programmes to be broadcasted after 24 hours.
3. D Blue (**Ch. Mode**): Select the type of channels you want to display on the **Channel List** window. (**All, TV, Radio, Data/Other, Analogue, Favourites 1~5**)
4. (**Information**): Displays details of the selected programme.
5. (**Page**): Move to next or previous page.
6. (**Watch**)
   - When selecting the current programme, you can watch the selected programme.
   - When selecting the future programme, you can reserve to watch the selected programme. To cancel the schedule, press the **ENTER** button again and select **Cancel Schedules**.

Schedule Manager

Cancel or set the **Timer Viewing** to display the channel you want at the intended time.

Using Timer Viewing

You can set a desired channel to be displayed automatically at the intended time. Set the current time first to use this function.

1. Press the **ENTER** button on the **Schedule Manager** screen.
2. Press the **ENTER** button to add manual booking.
3. Press the ◄/►/▲/▼ button to set the **Antenna**, **Channel**, **Repeat**, **Date**, **Start Time**.
   - **Antenna**: **Air** or **Cable** will be displayed depending on the Antenna setting.
   - **Channel**: Select the desired channel.

- **Repeat**: Select **Once**, **Manual**, **Sat~Sun**, **Mon~Fri** or **Everyday** to set at your convenience.

  The (✓) mark indicates the day is selected.

- **Date**: You can set desired date.

  It is available when you select **Once** in **Repeat**.

- **Start Time**: You can set start time you want.

If you want to edit or cancel the schedule, select the reserved schedule on the **Reserved programmes**, and select the **Edit** or **Cancel Schedules**.

◀ ▶

Channel List

You can view channel information, **All**, **TV**, **Radio**, **Data/Other**, **Analogue** or **Favourites 1-5**.

* It may differ depending on the model.

When you press the **CH LIST** button on the remote control, **Channel List** screen will be displayed at once.

- **All**: Shows all currently available channels.
- **TV**: Shows all currently available digital channels.
- **Radio**: Shows all currently radio channels.
- **Data/Other**: Shows all currently available MHP or other channels..
- **Analogue**: Shows all currently available analogue channels.
- **Favourites 1-5**: Shows all favourite channels.

Favourites 1-5 will be displayed when you set Add to Favourites.

If you want to view favourite channels you added, press the CH LIST button and use ◀▶ (Ch. Mode) button to move Favourites 1-5.

Using the colour buttons with the Channel List.

- A Red (Antenna): Switches to Air or Cable.
- C Yellow (Program View /Channel View): Displays the programme when digital channel is selected. Returns to the channel view.
- ◀▶ (Ch. Mode): Move to the All, TV, Radio, Data/Other, Analogue or Favourites 1~5.

  Displays the Favourite when Add to Favourites is set.
- (Watch): Watches the channel you select.
- ▲▼ (Page): Move to next or previous page.

Channel Status Display Icons

Icon	Operations
A	An analogue channel.
	A reserved programme.
	A locked channel.

How to use Timer Viewing in Channel List (digital channels only)

When you set the **Timer Viewing** in **Channel List**, you can only set the programme in **Programme View**.

1. Press the **CH LIST** button, then select a desired digital channel.
2. Press the C (**Programme View**) button.
3. Press the ▲ / ▼ buttons to select the desired programme, then press the i (**Information**) button.
4. Select **Timer Viewing**, then press the **ENTER** ↵ button when done.

If you want to cancel **Timer Viewing**, follow steps 1 through 3. Select **Cancel Schedules**.

Channel Manager

Add or edit the favourite channel and set the channels to **Lock**, **Delete**, **Deselect All** or **Select All**. You can edit the channel name only for analogue channels.

- ( ) **Channels**: Shows the channel list according to channel type.
- ( ) **Favourites 1-5**: Shows favourites channels .

* It may differ depending on the model.

Using the colour buttons with the **Channel Manager**.

- A Red (**Antenna**): Switches to **Air**, **Cable**.
- D Blue (**Sorting**): Changes the list ordered by number or name.

NOTE

- It is not available in analogue channel.

Channel Status Display Icons

Icon	Operations
A	An analogue channel.
✓	A channel selected.
★	A channel set as a favourite.
🔒	A locked channel.
	Displays the **Channel Manager** option menu.

Channel Manager Option Menu TOOLS

Set each channel using the **Channel Manager** menu options (**Watch**, **Add to Favourites/Edit Favourites, Lock/Unlock, Edit Channel Name/Edit Channel Number, Delete, Select All/Deselect All**). Option menu items may differ depending on the channel status.

1. Select a channel and press the **TOOLS** button.
2. Select a function and change its settings.

- **Watch**: Watch the selected channel.
- **Add to Favourites/Edit Favourites**: Set channels you watch frequently as favourites.

  1. Select the **Add to Favourites/Edit Favourites**, then press the **ENTER** button.

     If the channel is already added to favourite channel, **Edit Favourites** will be shown.

  2. Press the **ENTER** button to select **Favourites 1-5**, then press the **OK** button.

     One favourite channel can be added in several of **Favourites** among **Favourites 1-5**.

- **Lock/Unlock**: Lock a channel so that the channel cannot be selected and viewed.

  NOTE

  - This function is available only when the **Child Lock** is set to **On**.
  - The PIN input screen appears. Enter your 4-digit PIN, the default of which is “0-0-0-0”. Change the PIN using the **Change PIN** option.

- **Edit Channel Name** (analogue channels only): Assign your own channel name.
- **Edit Channel Number** : Edit the number by pressing the number buttons desired.

  Some area may not be able to support **Edit Channel Name** and **Edit Channel Number** function.

- **Delete**: You can delete a channel to display the channels you want.
- **Select All/Deselect All**: Select all the channels or deselect all the selected channels in the channel manager.

❑ Retuning Channels

■ Antenna (Air / Cable)

Before your set can begin memorising the available channels, you must specify the type of signal source that is connected to the set (i.e. an **Air**, **Cable** system).

Auto Tuning

Scans for a channel automatically and stores in the set.

Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked, the PIN input window appears.

- **Antenna Source (Air / Cable):** Select the antenna source to memorise.

When Antenna Source is set to Air:

- **Channel Source (Digital & Analogue / Digital / Analogue)** Select the channel source to memorise.

When Antenna Source is set to Cable:

- When selecting **Cable** → **Analogue**: Provide a value to scan for cable channels.

Manual Tuning

Scans for a channel manually and stores in the set.

If a channel is locked, the PIN input window appears.

According to channel source, **Manual Tuning** may be supported.

When Antenna Source is set to Air or Cable:

- **Digital Channel Tuning**: When scanning has finished, channels are updated in the channel list.

  When selecting **Antenna** → **Air: Channel, Frequency, Bandwidth**

- **Analogue Channel Tuning (Programme, Colour System, Sound System, Channel, Search, Store)**: If there is abnormal sound or no sound, reselect the sound standard required.

Channel mode

- **P** (programme mode): When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99. You can select a channel by entering the position number in this mode.
- **C** (aerial channel mode) / **S** (cable channel mode): These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

Guide Type depending on the model

Select to use either the built-in or downloaded guide.

- **Guide**: Set the built-in the guide to be displayed when the GUIDE button on the remote control is pressed.
- **Auto**: Set the set to select the proper Guide automatically when the GUIDE button on the remote control is pressed.

Fine Tune

(analogue channels only)

If the signal is weak or distorted, fine tune the channel manually.

- Fine tuned channels are marked with an asterisk “*”.
- To reset the fine-tuning, select **Reset**.

LNA

If the set is operating in a weak-signal area, the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

❑ Changing the Preset Picture Mode

■ Picture Mode

Select your preferred picture type.

In **PC** mode, you can only make changes to the **Entertain** and **Standard**.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Movie**: Suitable for watching movies in a dark room.
- **Entertain**: Suitable for watching movies and games.

  It is only available in **PC** mode.

❑ Adjusting Picture Settings

■ **Samsung MagicAngle(Off/On):** Select angle that best suits your viewing position.

Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your set has several setting options for picture quality control.

NOTE

- In analogue TV, AV modes of the PAL system, the **Tint (G/R)** function is not available.
- In **PC** mode, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.
- Settings can be adjusted and stored for each external device connected to the set.

Screen Adjustment

Set the various picture options such as picture size and aspect ratio.

- **Picture Size**: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.

  Auto Wide depending on the model: Automatically adjusts the picture size to the **16:9** aspect ratio.

  16:9: Sets the picture to 16:9 wide mode.

  Wide Zoom: Magnifies the picture size more than 4:3.

  Adjusts the **Position** by using ▲, ▼ buttons.

  Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.

  Adjusts the **Position** or **Size** by using ▲, ▼ button.

4:3: Sets the picture to basic (4:3) mode.

Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention (screen burn) which are not covered by the warranty.

Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

NOTE

- The picture size can vary depending on the input resolution when content is played using **Videos** under **My Downloads**.

- **Position**: Adjust the picture position. It is only available in **Wide Zoom**.
- **Zoom/Position** : Adjust the picture size and position. It is only available in **Zoom**.

NOTE

- After selecting **Screen Fit** in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode, you may need to centre the picture:
  1. Press the ▲ or ▼ button to select **Position**.
  2. Press the **ENTER** ↵ button.
  3. Press the ▲, ▼, ◀ or ▶ button to move the picture.
- Depending on the input source, the picture size options may vary.

- The available items may differ depending on the selected mode.
- In **PC** mode, only **16:9** and **4:3** modes can be adjusted.
- Settings can be adjusted and stored for each external device connected to an input on the set.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

- **PC Screen Adjustment**

  It is available in **PC** mode.

  Coarse / Fine: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned to the centre of screen.

  Position: Adjust the PC's screen positioning if it does not fit the screen. Press the ▲ or ▼ button to adjust the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position.

  Image Reset: Resets the image to default settings.

Auto Adjustment TOOLS

Adjust frequency values/positions and fine tune the settings automatically.

- It is available in **PC** mode.
- Not available when connecting through HDMI/DVI cable.

Using Your set as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

Depending on the version of Windows and the video card, the actual screens on your PC will probably look different, but the same basic set-up information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click on “Control Panel” on the Windows start menu.
2. Click on “Appearance and Themes” in the “Control Panel” window and a display dialog-box will appear.
3. Click on “Display” and a display dialog box will appear.
4. Navigate to the “Settings” tab on the display dialog-box.
    - The correct size setting (resolution)
    - If a vertical-frequency option exists on your display settings dialog box, the correct value is ‘60’ or ‘60 Hz’. Otherwise, just click ‘OK’ and exit the dialog box.

❑ Changing the Picture Options

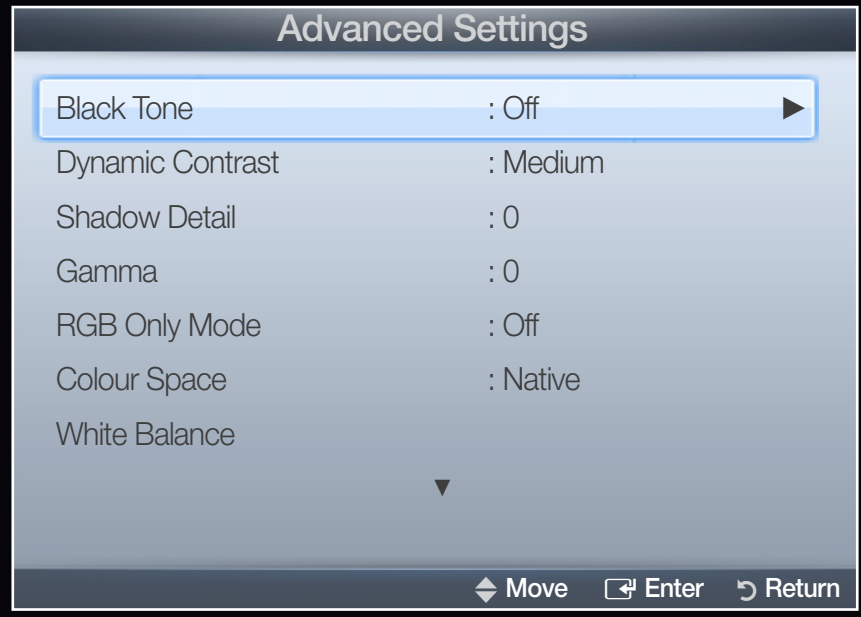
■ Advanced Settings

(available in **Standard / Movie** mode)

You can adjust the detailed setting for the screen including colour and contrast.

✎ In **PC** mode, you can only make changes to **Gamma** and **White Balance**.

- **Black Tone (Off / Dark / Darker / Darkest)**: Select the black level to adjust the screen depth.



- **Dynamic Contrast (Off / Low / Medium / High)**: Adjust the screen contrast.
- **Shadow Detail**: Increase the brightness of dark images.

  Disabled under **PC** mode.
- **Gamma**: Adjust the primary colour intensity.
- **RGB Only Mode (Off / Red / Green / Blue)**: Displays the Red, Green and Blue colour for making fine adjustments to the hue and saturation.
- **Colour Space (Auto / Native)**: Adjust the range of colours available to create the image.

- **White Balance**: Adjust the colour temperature for a more natural picture.

  R-Offset / G-Offset / B-Offset: Adjust each colour's (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjust each colour's (red, green, blue) brightness.

  Reset: Resets the **White Balance** to it's default settings.
- **Flesh Tone**: Emphasize pink "Flesh Tone."
- **Edge Enhancement (Off / On)**: Emphasize object boundaries.
- **Motion Lighting (Off / On)**: Reduce power consumption by brightness control adapted motion.

◀ ▶

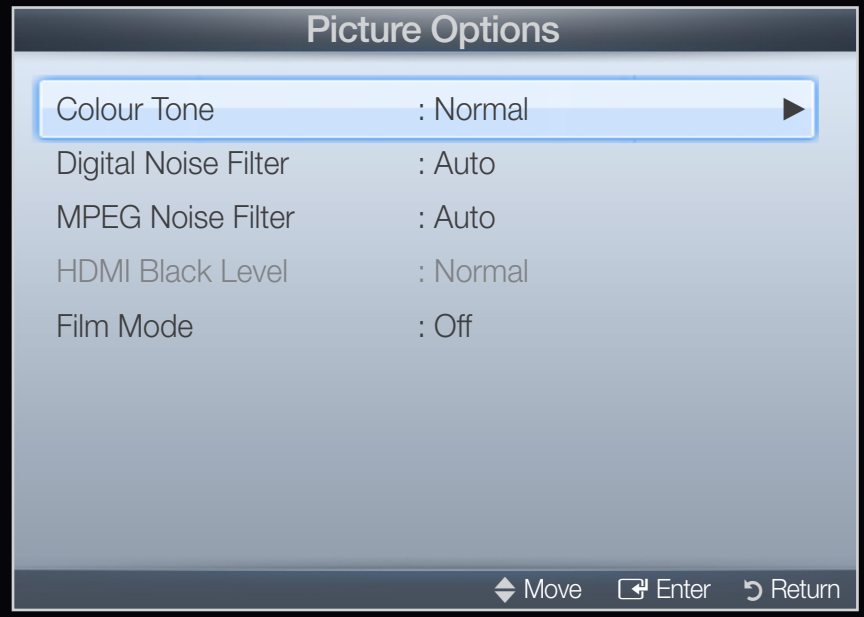
Picture Options

In **PC** mode, you can only make changes to the **Colour Tone**.

- **Colour Tone (Cool / Normal / Warm1 / Warm2)**

  Warm1 or **Warm2** will be deactivated when the picture mode is **Dynamic**.

  Settings can be adjusted and stored for each external device connected to an input on the set.



- **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualisation)**: If the broadcast signal received by your set is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.

  When the signal is weak, try other options until the best picture is displayed.

  Auto Visualisation: When changing analogue channels, displays signal strength.

  Only available for analogue channels.

  When bar is green, you are receiving the best possible signal.

- **MPEG Noise Filter (Off / Low / Medium / High / Auto)**: Reduces MPEG noise to provide an improved picture quality.

- **HDMI Black Level (Normal / Low)**: Selects the black level on the screen to adjust the screen depth.

  Available only in **HDMI** mode (RGB signals).

- **Film Mode (Off / Auto1 / Auto2)**: Sets the set to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

  Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

Reset Picture (OK / Cancel)

Resets your current picture mode to its default settings.

❑ Changing the Preset Sound Mode

■ Sound Mode TOOLS

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

❑ Sound Systems, Etc.

■ Sound Effect

- **SRS TruSurround HD (Off / On)**

  (standard sound mode only)

  This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- **SRS TruDialog (Off / On)**

  (standard sound mode only)

  This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- **Equalizer**

  Adjusts the sound mode (standard sound mode only).

  - **Balance L/R**: Adjusts the balance between the right and left speaker.
  - **100Hz / 300Hz / 1kHz / 3kHz / 10kHz** (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
  - **Reset**: Resets the equalizer to its default settings.

Broadcast Audio Options

- **Audio Language**

  (digital channels only)

  Change the default value for audio languages.

  The available language may differ depending on the broadcast.

- **Audio Format**

  (digital channels only)

  When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

  Audio Format option may differ depending on the broadcast. 5.1ch Dolby digital sound is only available when connecting an external speaker through an optical cable.

- **Audio Description**

  (not available in all locations) (digital channels only)

  This function handles the Audio Stream for the AD (Audio Description) which is sent along with the Main audio from the broadcaster.

  - **Audio Description (Off / On)**: Turn the audio description function on or off.
  - **Volume**: Adjust the audio description volume.

Additional Setting

(digital channels only)

- **DTV Audio Level (MPEG / HE-AAC)**: This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.

  - According to the type of broadcast signal, **MPEG / HE-AAC** can be adjusted between -10dB and 0dB.
  - To increase or decrease the volume, adjust between the range 0 and -10 respectively.

◀ ▶

- **SPDIF Output**: SPDIF (Sony Philips Digital InterFace) is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

  Audio Format: During the reception of a digital TV broadcast, you can select the Digital Audio output (SPDIF) format from the options **PCM** or **Dolby Digital**.

  By connecting to 5.1ch speakers in a Dolby Digital setup, maximize your interactive 3D sound experience.

  Audio Delay: Correct audio-video sync problems, when watching TV or video, and when listening to digital audio output using an external device such as an AV receiver.

- **Dolby Digital Comp (Line / RF)**: This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).

  Select Line to obtain dynamic sound, and RF to reduce the difference between loud and soft sounds at night time.

  Line: Set the output level for signals greater or less than -31dB (reference) to either -20dB or -31dB.

  RF: Set the output level for signals greater or less than -20dB (reference) to either -10dB or -20dB.

◀ ▶

Speaker Settings

- **Speaker Select (External Speaker / TV Speaker)**

  A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the speaker to **External Speaker**.

  When **Speaker Select** is set to **External Speaker**, the volume and **MUTE** buttons will not operate and the sound settings will be limited.

  When **Speaker Select** is set to **External Speaker**.

  - **TV Speaker**: **Off**, **External Speaker**: **On**

  When **Speaker Select** is set to **TV Speaker**.

  - **TV Speaker**: **On**, **External Speaker**: **Off**

  If there is no video signal, both speakers will be mute.

- **Auto Volume (Off / Normal / Night)**

  To equalize the volume level on each channel, set to **Normal**.

  Night: This mode provides an improved sound experience compared to **Normal** mode, making almost no noise. It is useful at night.

Reset Sound (OK / Cancel)

Reset all sound settings to the factory defaults.

❑ Setting the Time

■ Time

The current time will appear every time you press the **INFO** button.

- **Clock**: Setting the clock is for using various timer features of the set.

  If you disconnect the power cord, you have to set the clock again.

  Clock Mode: Set up the current time manually or automatically.

  – **Auto**: Set the current time automatically using the time from a digital channel.

  The antenna must be connected in order to set the time automatically.

– **Manual**: Set the current time manually.

Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

Clock Set: Set the **Year, Month, Day, Hour** and **Minute** manually.

Available only when **Clock Mode** is set to **Manual**.

❑ Using the Sleep Timer

- **Sleep Timer** TOOLS: Automatically shuts off the set after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

  To cancel **Sleep Timer**, select **Off**.

❑ Setting the On / Off Timer

- **On Timer 1 / On Timer 2 / On Timer 3**: Three different on timer settings can be made. You must set the clock first.

- **Setup**: Select **Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

  The ✓ mark indicates the day is selected.

- **On Time**: Set the hour, minute.
- **Volume**: Set the desired volume level.
- **Source**: Select **TV** or **USB** content to be played when the set is turned on automatically. (**USB** can be selected only when a USB device is connected to the set)
- **Antenna** (when the **Source** is set to **TV**): Select a proper antenna source.
- **Channel** (when the **Source** is set to **TV**): Select the desired channel.
- **Music / Photo** (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files to be played when the set is turned on automatically.

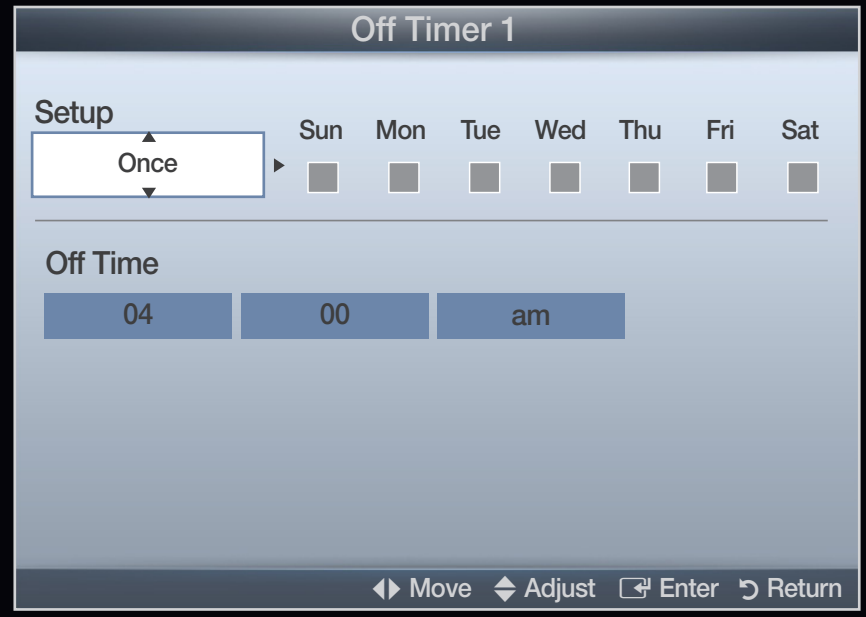
NOTE

- If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.
- When there is only one photo file in the USB device, the Slide Show will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

- **Off Timer 1 / Off Timer 2 / Off Timer 3**: Three different off timer settings can be made. You must set the clock first.
  Setup: Select **Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun** or **Manual** to set at you convenience.
  If you select **Manual**, you can set up the day you want to activate the timer.

  The ✓ mark indicates the day is selected.

  Off Time: Set the hour, minute.



❑ Locking Programme

■ Security

- The PIN input screen appears before the setup screen.
- Enter your 4-digit PIN, the default of which is “0-0-0-0”. Change the PIN using the **Change PIN** option.
  - **Channel Lock (Off / On)**: Lock channels in Channel Manager, to prevent unauthorized users, such as children, from watching unsuitable programme.
  - Available only when the Input source is set to **TV**.

◀ ▶

- **Change PIN**: Change your personal ID number required to set up the set.

  If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0”: **MUTE** → **8** → **2** → **4** → **POWER** (on).

❑ Picture In Picture (PIP)

■ PIP

You can watch TV and one external video source simultaneously. **PIP** (Picture-in-Picture) does not function in the same mode.

NOTE

- For PIP sound, refer to the **Sound Select** instructions.
- If you turn the set off while watching in **PIP** mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

- PIP settings

Main picture	Sub picture
Component, HDMI, PC	TV

- **PIP (Off / On)**: Activate or deactivate the PIP function.
- **Air/Cable :** Select the proper input source for the sub-screen.
- **Channel**: Select the channel for the sub-screen.
- **Size** (/): Select a size for the sub-picture.
- **Position** (/ / /): Select a position for the sub-picture.
- **Sound Select (Main / Sub)**: You can choose the desired sound (**Main** / **Sub**) in **PIP** mode.

❑ Economical Solutions

■ Eco Solution

- **Energy Saving (Off / Low / Medium / High / Picture Off)** TOOLS: This adjusts the brightness of the set in order to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.
- **No-Signal Power Off (Off / 15 min / 30 min / 60 min)**:
  To avoid unnecessary energy consumption, set how long you want the set to remain on if it's not receiving a signal.

  Disabled when the PC is in power saving mode.

- **Auto Power Off (Off / On)**: The set will be automatically turned off when no user operation is received for 4 hours.

Auto Protection Time

- **Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours)**: If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen

❑ Other Features

■ Language

- **Menu Language**: Set the menu language.
- **Preference (Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language)** : Select a language, which will be the default language when a channel is selected.

◀ ▶

Subtitle

Use this menu to set the **Subtitle** mode.

- **Subtitle (Off / On)**: Switches subtitles on or off.
- **Subtitle Mode (Normal / Hearing Impaired)**: Sets the subtitle mode.
- **Subtitle Language**: Sets the subtitle language.

  If the programme you are watching does not support the **Hearing Impaired** function, **Normal** automatically activates even if the **Hearing Impaired** mode is selected.

Digital Text (Disable / Enable) depending on the model

If the programme broadcasts with digital text, this feature is enabled.

MHEG (Multimedia and Hypermedia Information Coding Experts Group)
An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includesdata-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), teleeducation, tele-conferencing, digital libraries and network games.

General

- **Max. Power Saving(Off/On) :** Turn off PC monitor when PC is not used for certain length of time to reduce power consumption.
- **Game Mode (Off / On)**: When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game mode.

  NOTE

  - Precautions and limitations for game mode
    - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
    - If you display the set menu in **Game Mode**, the screen shakes slightly.
  - **Game Mode** is not available when the input source is set to TV or PC.

- After connecting the game console, set **Game Mode** to **On**. Unfortunately, you may notice reduced picture quality.
- If **Game Mode** is **On**:
  - **Picture Mode** is set to **Standard** and **Sound Mode** is set to **Movie**.

- **Menu Transparency (Bright / Dark)**: Set the Transparency of the menu.
- **Boot Logo (Off / On)**: Display Samsung logo when the set is turned on.

Anynet+(HDMI-CEC)

For details on set up options, refer to the “**Anynet+(HDMI-CEC)**” instructions.

DivX® Video On Demand

Shows the registration code authorized for the set. If you connect to the DivX web site and register, you can download the VOD registration file. If you play the VOD registration using **My Downloads**, the registration is completed.

For more information on DivX® VOD, visit “http://vod.divx.com”.

e-Manual

You can read the introduction and instructions about the set features stored in your set.

NOTE For the detailed information about e-Manual Screen, refer to “How to view the e-Manual” in User Manual.

Self Diagnosis

Self Diagnosis might take few seconds, this is part of the normal operation of the set.

- **Picture Test (Yes / No)**: Use to check for picture problems.

- **Sound Test (Yes / No)**: Use the built-in melody sound to check for sound problems.

  If you hear no sound from the speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Speaker Settings** menu.

  The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.

- **Signal Information**: (digital channels only) HDTV channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.

- **Troubleshooting**: If the set seems to have a problem, refer to this description.

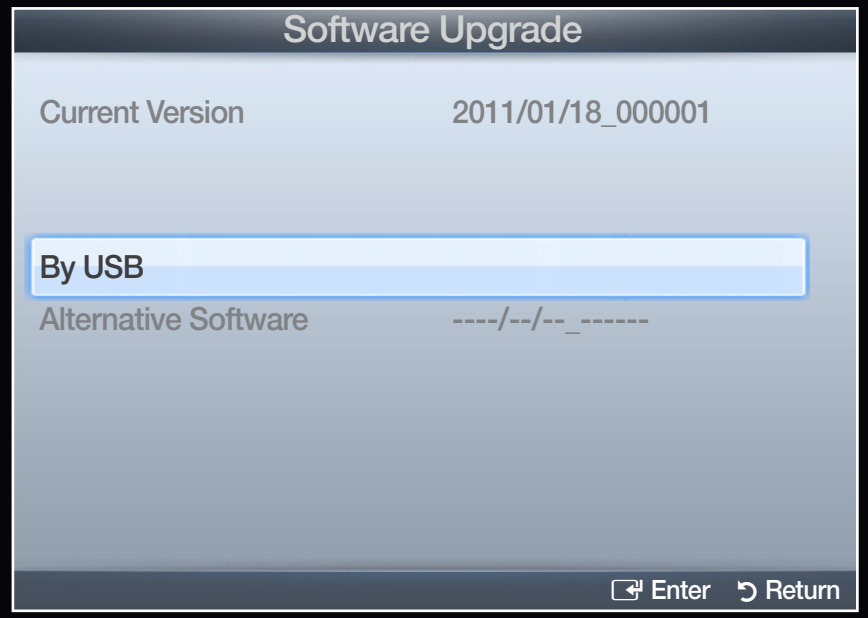
  If none of these troubleshooting tips apply, contact the Samsung customer service centre.

Software Upgrade

Software Upgrade can be performed via a broadcasting signal or by network connection or downloading the latest firmware from “www.samsung.com,” to a USB memory device.

Current Version is the software already installed in the set.

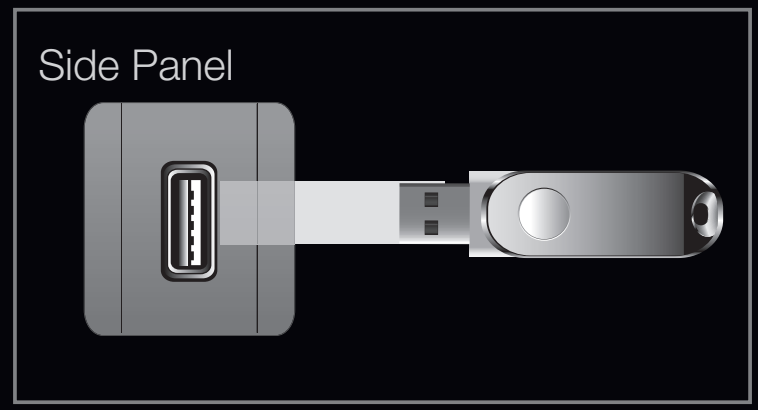
Software is represented as “Year/Month/Day_Version”.



* It may differ depending on the model.

Installing the Latest Version

- **By USB**: Insert a USB drive containing the firmware upgrade file, downloaded from “www.samsung.com,” into the set. Please be careful not to disconnect the power or remove the USB drive until upgrades are completed. The set will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to to write down your settings so that you can easily reset them after the upgrade.



* It may differ depending on the model.

- **Alternative Software** (backup) : This feature is not available.

Contact Samsung

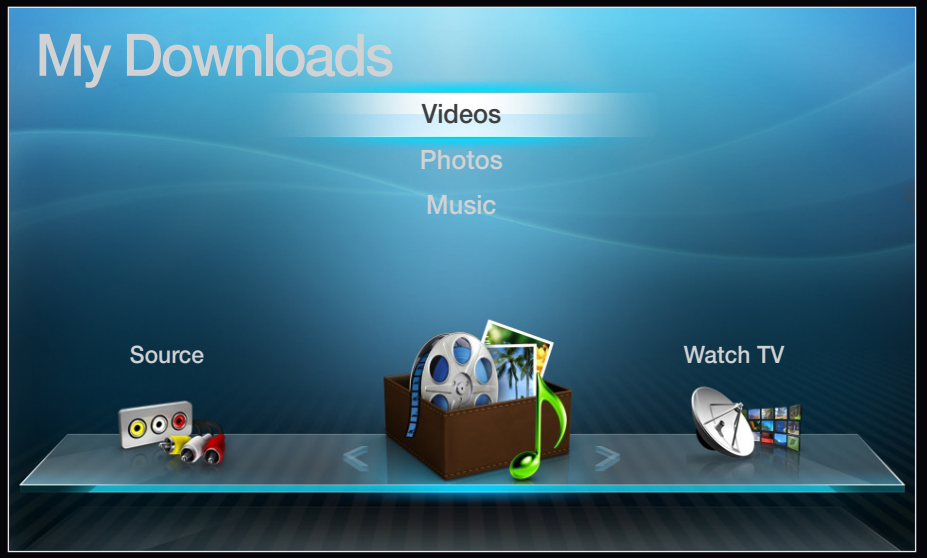
View this information when your set does not work properly or when you want to upgrade the software. You can find information regarding our call centres, and how to download products and software.

❑ How to enter USB for watching

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.

Method 1

1. Press the **CONTENT** button to select **My Downloads**.
2. Press ▲/▼ button to select desired menu (**Videos**, **Photos**, **Music**), then press the **ENTER** ↵ button.



* It may differ depending on the model.

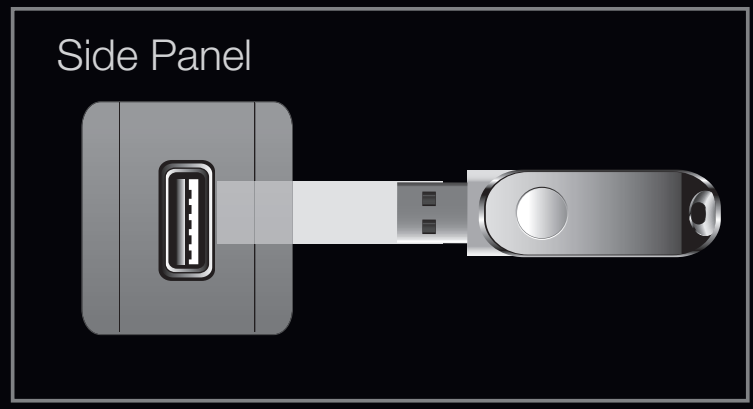
Method 2

1. Press SOURCE button to select **USB**.
2. Press ◄/►/▲/▼ button to select the contens you want (**Videos**,**Photos**,**Music**), then press **ENTER** button.

❑ Connecting a USB Device

1. Turn on your set.
2. Connect a USB device containing photo, music and/or movie files to the **USB** jack on the side of the set.
3. When USB is connected to the set, popup window appears. Then you can select **Connected Device**.

   USB (HDD) is not supported.



* It may differ depending on the model.

- It might not work properly with unlicensed multimedia files.
- Need-to-Know List before using **My Downloads**
  - MTP (Media Transfer Protocol) is not supported.
  - The file system supports FAT16, FAT32 and NTFS.
  - Certain types of USB Digital camera and audio devices may not be compatible with this set.
  - **My Downloads** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the set's USB port.
  - Before connecting your device to the set, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the “Not Supported File Format” message is displayed.
- If the files are sorted by Basic View, up to 1000 files can be displayed in each folder.

- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.

- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the set has been no input during time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the set.

- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- If a USB device connected to the set is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when **My Downloads** is run, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.

❑ Screen Display

Move to the desired file using the ◄/►/▲/▼ buttons and then press the **ENTER** or ► (Play) button. The file is played. **My Downloads** screen may differ depending on the way to enter the screen.

Information:
You can ascertain the selected device name, contents mode, folder/ file name, page and sorting list.

File List Section:
You can confirm the files and groups that are sorted by category.

Contents mode / Device name:
You can select the desired Contents mode or Device name.

Operation Buttons:
- C Yellow (**Edit Mode**): Selects the desired music. The check box is shown in the screen to check the music you want. It is only available in Music.
- ◄◄ ►► (**Page**): Move to next or previous page.
- **Tools**: Displays the option menu.
- **Return**: Move to the previous step.

Videos

Playing Video

1. Press the ◄/►/▲/▼ button to select the desired video in the file list.
2. Press the **ENTER** ↵ button or ▶ (Play) button.
   - The selected file name is displayed on the top with its playing time.
   - If video time information is unknown, play time and progress bar are not displayed.

– During video playback, you can search using ◄ and ► button.

– You can use (◄◄) (REW) and (►►) (FF) buttons during playback.

When connecting to the PC through network, the ◄◄ and ►► buttons are not available.

In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.

- Supported Subtitle Formats

Name	File extension	Format
MPEG-4 time-based text	.txt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

- Supported Video Formats

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv	AVI MKV	Divx 3.11/4.x/5.1/6.0	1920 x 1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / DTS Core
		XviD	1920 x 1080	6 ~ 30	8	
		H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		Motion JPEG	640 x 480	6 ~ 30	8	

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.asf	ASF	Divx 3.11/4.x/5.1/6.0	1920 x 1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / WMA
		XviD	1920 x 1080	6 ~ 30	8	
		H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		Motion JPEG	640 x 480	6 ~ 30	8	
*.wmv	ASF	Window Media Video v9	1920 x 1080	6 ~ 30	25	WMA

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.mp4	MP4	H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	MP3 / ADPCM / AAC
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		XVID	1920 x 1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	ADPCM / AAC / HE-AAC
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
*.vro	VRO VOB	MPEG2	1920 x 1080	24/25/30	30	AC3 / MPEG / LPCM
		MPEG1	1920 x 1080	24/25/30	30	

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.mpg *.mpeg	PS	MPEG1	1920 x 1080	24/25/30	30	AC3 / MPEG / LPCM / AAC
		MPEG2	1920 x 1080	24/25/30	30	
		H.264	1920 x 1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920 x 1080	24/25/30	30	AC3 / AAC / MP3 / DD+ / HE-AAC
		H.264	1920 x 1080	6 ~ 30	25	
		VC1	1920 x 1080	6 ~ 30	25	
*rmvb	RMVB	RV3.0/RV	1920 x 1080	30	10	Real Audio 6,9,10

Other Restrictions

NOTE

- If there are problems with the contents of a codec, the codec will not be supported.
- If the information for a Container is incorrect and the file is in error, the Container will not be able to play correctly.
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- The videos over 10Mbps(bit rate) may be interrupted.

Video Decoder	Audio Decoder
● Supports up to H.264, Level 4.1 ● H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. ● XVID, MPEG4 SP, ASP : ● – Below 1280 x 720: 60 frame max ● – Above 1280 x 720: 30 frame max ● GMC is not support.	● Supports up to WMA 7, 8, 9, STD, 9 PRO ● WMA Lossless, Voice Lossless, Voice is not supported. ● WMA sampling rate 22050Hz mono is not supported.

Photos

Viewing a Photo (or Slide Show)

1. Press the ◄/►/▲/▼ button to select the desired photo in the file list.
2. Press the **ENTER** button.
   - When a selected photo is displayed, press the **ENTER** button to start the slide show.
   - During the slide show, all files in the file list will be displayed in order.

When you press the (Play) button in the file list, slide show will be started immediately.

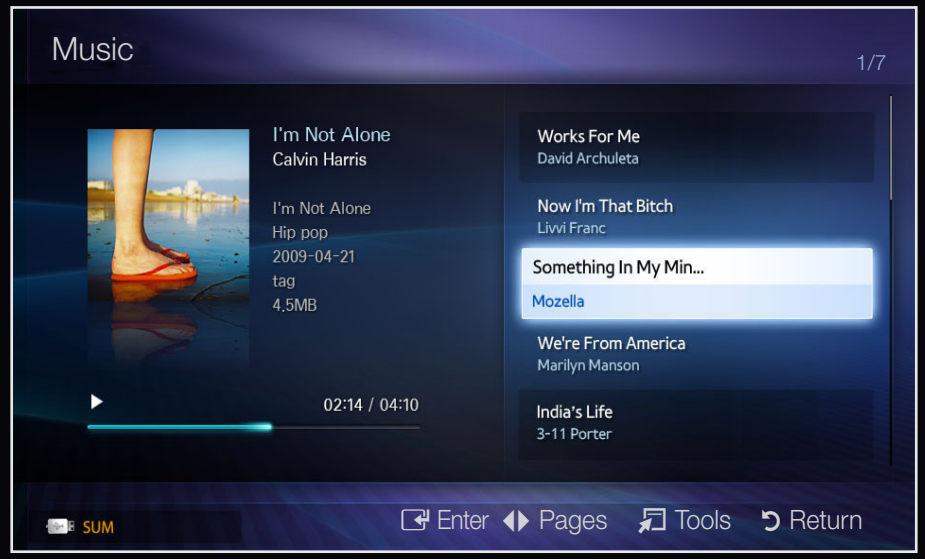
Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

The **BGM Mode** cannot be changed until the BGM has finished loading.

Music

Playing Music

1. Press the ◄/►/▲/▼ button to select the desired Music in the file list.
2. Press the **ENTER** ↵ button or ► (Play) button.
   - You can use ◄◄ (REW) and ►► (FF) buttons during playback.



Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.

If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

Playing selected music

1. Press the C (**Edit Mode**) button.
2. Select the desired music.

   The check box appears to the left of the selected files.

3. Press the **TOOLS** button and select **Play Selected Contents**.

   You can select or deselect all music pressing the **Select All/Deselect All**.

❑ My Downloads - Additional Functions

Videos/Music/Photos Play Option menu

It may differ depending on the model and source.

During playing a file, press the **TOOLS** button.

Category	Operation	Videos	Music	Photos
Title Search	You can move the other file directly.	✓		
Time Search	You can search the video using ◄ and ► button at one minute interval or entering the number directly.	✓		
Shuffle Mode	You can play the music randomly.		✓	
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	

Category	Operation	Videos	Music	Photos
Picture Size	You can adjust the picture size to your preference.	✓		
Picture Mode	You can adjust the picture setting.	✓		✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓		

Category	Operation	Videos	Music	Photos
Subtitle Language	You can enjoy video in one of supported languages as required. The function is only enabled when stream-type files which support multiple audio formats are played.	✓		
Start Slide Show / Pause Slide Show	You can start or pause a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓

Category	Operation	Videos	Music	Photos
Background Music	You can on/off background music when watching a Slide Show.			✓
Background Music Setting	You can select background music when watching a Slide Show.			✓
Zoom	You can zoom into images in full screen mode.			✓

Category	Operation	Videos	Music	Photos
Rotate	You can rotate images in full screen mode.			✓
Information	You can see detailed information about the played file.	✓	✓	✓

What is Anynet+? TOOLS

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung set's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

For the method of connecting external devices, refer to the supported user manual.

NOTE

- Connect the Optical cable between the DIGITAL AUDIO OUT (OPTICAL) jack on your set and the Digital Audio Input on the Home Theatre.

- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theatre's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD / Satellite Box (i.e. Anynet Device 1 or 2) directly to the Amplifier or Home Theatre, not the set.
- Only one Home Theatre can be connected.
- You can connect an Anynet+ device using the HDMI cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the set.

Anynet+ Menu	Description
View TV	Changes Anynet+ mode to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) **MENU**	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) **Tools**	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.

Anynet+ Menu	Description
(device_name) **Title Menu**	Shows the title menu of the connected device. E.g. If a DVD recorder is connected, the title menu of the DVD recorder will appear. Depending on the device, this menu may not be available.
Recording: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

❑ Setting Up Anynet+

■ Setup

Anynet+ (HDMI-CEC) (Off / On): To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

✎ When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

Auto Turn Off (No / Yes): Setting an Anynet+ Device to turn off automatically when the set is turned off.

✎ If **Auto Turn Off** is set to **Yes**, running external devices will turn off at the same time as the set powers off. However, a device may not turn off if recording is in progress.

✎ May not be enabled depending on the device.

❑ Switching between Anynet+ Devices

1. Press the **TOOLS** button, then select **Anynet+ (HDMI-CEC)**.
2. Anynet+ devices connected to the set are listed in **Device List**.

   If you cannot find a device you want, press the **A** button to refresh the list.
3. Select a device and press the **ENTER** button. You can switch to the selected device.

   Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **System** menu, the **Device List** menu appears.

   - Switching to the selected device may take up to 2 minutes. You cannot cancel the operation during the switching operation.
   - If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

❑ Recording

You can make a recording of a TV Programme using a Samsung recorder.

1. Select **Recording**.

When there are more than two recording devices

- When multiple recording devices are connected, the recording devices are listed. Select one recording device in the **Device List**.
- When the recording device is not displayed, select **Device List** and press the A button to search devices.

2. Press the **EXIT** button to exit.

- You can record the source streams by selecting **Recording**: (device_name).
- Pressing the ● (REC) button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
- Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

❑ Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theatre) instead of the set's speaker.

1. Select **Receiver** and set to **On**.
2. Press the **EXIT** button to exit.

- If your receiver supports audio only, it may not appear in the device list.
- The receiver will work when you have properly connected the optical in jack of the receiver to the DIGITAL AUDIO OUT (OPTICAL) jack of the set.
- When the receiver (i.e Home Theatre) is set to **On**, you can hear sound output from the set's Optical jack. When the set is displaying a DTV (air) signal, the set will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD and is connected to the set via HDMI, only 2 channel sound will be heard from the receiver.

◀ ▶

NOTE

- You can only control Anynet+ devices using the set remote control, not the buttons on the set.
- The set remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.

❑ Troubleshooting for Anynet+

Problem	Possible Solution
Anynet+ does not work.	• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Only one receiver (Home Theatre) can be connected. • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI cable connections. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the **System** menu.

◀ ▶

Problem	Possible Solution
Anynet+ does not work.	• Check whether the set remote control is in **TV** mode. • Check whether the remote control is Anynet+ compatible. • Anynet+ does not work in certain situations. (Searching channels, operating **My Downloads** or **Plug & Play** (initial setup), etc.) • When connecting or removing the HDMI cable, please make sure to search devices again or turn your set off and on again. • Check if the Anynet+ Function of Anynet+ device is set on.

◀ ▶

Problem	Possible Solution
I want to start Anynet+.	• Check if the Anynet+ device is properly connected to the set and check if the **Anynet+ (HDMI-CEC)** is set to **On** in the **System** menu. • Press the **TOOLS** button to display the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	• Select **View TV** in the Anynet+ menu. • Press the **SOURCE** button on the set remote control and select a device other than Anynet+ devices. • Press ∨ CH ∧, **CH LIST**, **PRE-CH**, and **FAV.CH** to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)

Problem	Possible Solution
The message ‘**Connecting to Anynet+ device...**’ appears on the screen.	• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	• You cannot use the play function when **Plug & Play** (initial setup) is in progress.

Problem	Possible Solution
The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI cable is properly connected. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the **System** menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI cable only. Some HDMI cables may not support Anynet+ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.

Problem	Possible Solution
The TV Programme cannot be recorded.	• Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	• Connect the optical cable between set and the receiver.

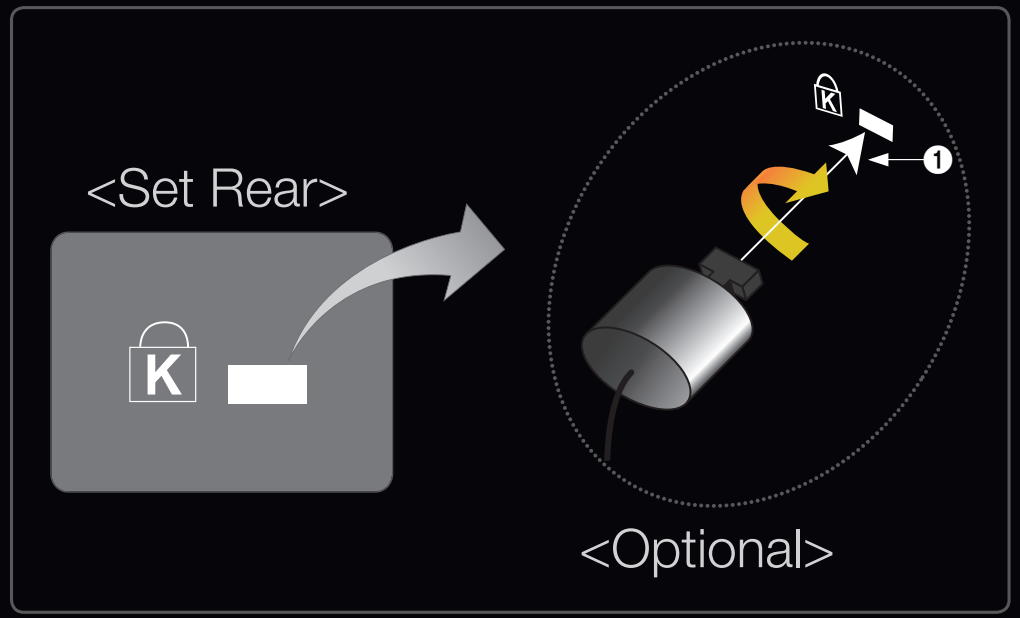
❑ Anti-theft Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

Please find a “🔒” icon on the rear of the set. A kensington slot is beside the “🔒” icon.

To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.



2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product ❶.
4. Lock the lock.

NOTE

- These are general instructions. For exact instructions, see the User manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington slot may be different depending on the set model.

❑ Troubleshooting

If you have any questions about the set, first refer to this list. If none of these troubleshooting tips apply, please visit “www.samsung.com,” then click on Support, or contact the call centre listed on the back-cover of Users Manual.

Issues	Solutions and Explanations
Picture Quality	First of all, please perform the **Picture Test** and confirm that your set is properly displaying test image. • (go to **MENU** - **Support - Self Diagnosis - Picture Test**) If the test image is properly displayed, the poor picture may caused by the source or signal.

Issues	Solutions and Explanations
The set image does not look as good as it did in the store.	• If you have an analogue cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. • Cable/Satellite subscribers: Try HD stations from the channel line up. • Antenna connection: Try HD stations after performing Auto programme. Many HD channels are up scaled from SD(Standard Definition) contents. • Adjust the Cable/Set top box video output resolution to 1080i or 720p. • Make sure you are watching the set at the minimum recommended distance based on the size and definition of the signal.

Issues	Solutions and Explanations
The picture is distorted: macroblock error, small block, dots, pixelization	• Compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies. • Low signal level or bad quality can cause picture distortion. This is not a set issue. • Mobile phones used close to the set (up to 3.3ft) may cause noise in picture on analogue and digital channel.
Colour is wrong or missing.	• If you’re using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.

Issues	Solutions and Explanations
There is poor colour or brightness.	• Adjust the **Picture** options in the set menu. (go to **Picture** mode / **Colour / Brightness / Sharpness**) • Adjust **Energy Saving** option in the set menu. (go to **MENU** - **System - ECO solution - Energy Saving**) • Try resetting the picture to view the default picture settings. (go to **MENU** - **Picture - Reset Picture**)
There is a dotted line on the edge of the screen.	• If the picture size is set to **Screen Fit**, change it to **16:9**. • Change cable/set top box resolution.
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the set.

Issues	Solutions and Explanations
When changing channels, the picture freezes or is distorted or delayed.	• If connected with a cable box, please try to reset the cable box. Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes. • Set the output resolution of the cable box to 1080i or 720p.
Sound Quality	First of all, please perform the **Sound Test** to confirm that your set audio is properly operating. • (go to **MENU** - **Support - Self Diagnosis - Sound Test**) If the audio is OK, the sound problem may caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	• Please check the volume the of external device connected to your set.

Issues	Solutions and Explanations
The picture is good but there is no sound.	• Set the **Speaker Select** option to **TV speaker** in the sound menu. • If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the set. • If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your set). • If you are using a DVI to HDMI cable, a separate audio cable is required. • If your set has a headphone jack, make sure there is nothing plugged into it.

Issues	Solutions and Explanations
The speakers are making an inappropriate noise.	• Check the cable connections. Make sure a video cable is not connected to an audio input. • For antenna or cable connections, check the signal strength. Low signal level may cause sound distortion.
No Picture, No Video	
The set will not turn on.	• Make sure the AC power cord is securely plugged in to the wall outlet and the set. • Make sure the wall outlet is working. • Try pressing the **POWER** button on the set to make sure the problem is not the remote. If the set turns on, refer to “The remote control does not work” below.

Issues	Solutions and Explanations
The set turns off automatically.	• Ensure the **Sleep Timer** is set to **Off** in the **System** menu. • If your PC is connected to the set, check your PC power settings. • Make sure the AC power cord is plugged in securely to the wall outlet and the set. • When watching set from an antenna or cable connection, the set will turn off after 10 ~ 15 minutes if there is no signal.

Issues	Solutions and Explanations
There is no picture/ video.	• Check cable connections (remove and reconnect all cables connected to the set and external devices). • Set your external devices' (Cable/Set top Box, DVD, Blu-ray etc) video outputs to match the connections to the set input. For example, if an external device's output is HDMI, it should be connect to an HDMI input on the set. • Make sure your connected devices are powered on. • Be sure to select the set's correct source by pressing the **SOURCE** button on the set remote control.

Issues	Solutions and Explanations
RF(Cable/Antenna) Connection	
The set is not receiving all channels.	• Make sure the Antenna cable is connected securely. • Please try **Plug & Play** (Initial setup) to add available channels to the channel list. Go to **MENU** - **System - Plug & Play** (Initial setup) and wait for all available channels to be stored. • Verify the Antenna is positioned correctly.
The picture is distorted: macro block error small block, dots, pixelization	• Compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies. • A low signal can cause picture distortion. This is not a set issue.

Issues	Solutions and Explanations
PC Connection	
A “**Mode Not Supported**” message appears.	• Set your PC’s output resolution and frequency so they match the resolutions supported by the set.
“**PC**” is always shown on the source list, even if a PC is not connected.	• This is normal; “**PC**” is always shown on the source list, regardless of whether a PC is connected.
The video is OK but there is no audio.	• If you are using a HDMI connection, check the audio output setting on your PC.

Issues	Solutions and Explanations
Others	
The picture will not display in full screen.	• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. • Black bars on the top and bottom will appear during movies that have aspect ratios different from your set. • Adjust the picture size options on your external device or set to full screen.
The remote control does not work.	• Replace the remote control batteries with the poles (+/–) in the right direction. • Clean the sensor's transmission window on the remote. • Try pointing the remote directly at the set from 5~6 feet away.

Issues	Solutions and Explanations
The cable/set top box remote control does not turn the set on or off, or adjust the volume.	• Programme the Cable/Set top box remote control to operate the set. Refer to the Cable/Set user manual for the SAMSUNG set code.
A “**Mode Not Supported**” message appears.	• Check the supported resolution of the set, and adjust the external device’s output resolution accordingly.
There is a plastic smell from the set.	• This smell is normal and will dissipate over time.
The set **Signal Information** is unavailable in the **Self Diagnosis** Test menu.	• This function is only available with digital channels from an Antenna / RF/Coax connection.
The set is tilted to the side.	• Remove the base stand from the set and reassemble it.

Issues	Solutions and Explanations
There are difficulties assembling the stand base.	• Make sure the set is placed on a flat surface. If you can not remove the screws from the set, please use a magnetized screw driver.
The channel menu is greyed out. (unavailable)	• The **Channel** menu is only available when the set source is selected.
Your settings are lost after 30 minutes or every time the set is turned off.	• If the set is in the **Store Demo** mode, it will reset audio and picture settings every 30 minutes. Change the settings from **Store Demo** mode to **Home Use** mode in the **Plug & Play** (Initial setup) procedure. Press the SOURCE button to select **TV** mode, and go to **MENU** → **System** → **Plug & Play** (Initial setup) → **ENTER**↵.

Issues	Solutions and Explanations
You have intermittent loss of audio or video.	• Check the cable connections and reconnect them. • Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the set to the wall, we recommend using cables with 90 degree connectors.
You see small particles when you look closely at the edge of the frame of the set.	• This is part of the product's design and is not a defect.
The **PIP** menu is not available.	• **PIP** functionality is only available when you are using a HDMI, PC or components source.

Issues	Solutions and Explanations
The message “**Scramble signal**” or “**Weak Signal/No Signal**” appears.	• If you are using a CAM CARD (CI/CI+), check that it is installed into the common interface slot. • If there is still a problem, pull the CAM CARD out of the set and insert it into the slot again.
There are recurrent picture/sound issues.	• Check and change the signal/source.
A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.	• To prevent this, use felt pads on any surface of the set that comes in direct contact with furniture.

This TFT LCD panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

❑ License

Manufactured under licence from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under licence under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks. & DTS 2.0+ Digital Out and the DTS logos are trademarks of DTS, Inc. Product Includes software. © DTS, Inc. All Rights Reserved.

DivX Certified to play DivX video up to HD 1080p, including premium content.

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX,Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video. ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu.
Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
Pat. 7,295,673;7,460,688; 7,519,274

TheaterSound, SRS and the symbol are trademarks of SRS Labs, Inc.

TheaterSound technology is incorporated under licence from SRS Labs, Inc.